

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. **(Currently Amended)** A method of generating a synchronisation pulse representing a symbol boundary in an OFDM signal comprising useful symbol periods separated by guard spaces, with data in each guard space corresponding to part of the data in a respective useful symbol period, the method comprising:

deriving the difference between absolute values of samples of the OFDM signal separated by a period corresponding to the useful symbol period,

providing the difference between absolute values to an edge detector, and

generating the synchronisation pulse in response to a substantial change in the difference between the absolute values.

2. **(Currently Amended)** A method as claimed in claim 1, wherein the difference between the absolute values represents integrated values obtained over a plurality of symbol periods.

3. **(Original)** A method as claimed in claim 2, wherein an infinite impulse response filter is used for producing the integrated values.

4. **(Canceled).**

5. **(Previously Presented)** A method as claimed in claim 1, wherein the edge detector comprises a filter.

6. **(Previously Presented)** A method as claimed in claim 5, wherein the filter has variable coefficients.

7. **(Previously Presented)** A method as claimed in claim 5, wherein the filter is a finite impulse response filter.

Claims 8-12 **(Canceled).**

13. **(Currently Amended)** The A method of claim 2, wherein the edge detector comprises a filter.

14. **(Currently Amended)** The A method of claim 13, wherein the filter has variable coefficients.

15. **(Currently Amended)** The A method of claim 1, further comprising:
demodulating the OFDM signal to produce complex samples of transmitted OFDM samples;
applying a Fourier Transform to the complex samples; and

synchronizing a Fourier Transform window with the OFDM symbols using the synchronization pulse.

16. **(Currently Amended)** An apparatus for generating a synchronization pulse for an OFDM signal, comprising:

a device for receiving ~~an~~ the OFDM signal including useful symbol periods separated by guard spaces, with data in each guard space corresponding to part of the data in a respective useful symbol period;

a first circuit for determining and monitoring the difference between absolute values of samples of the OFDM signal separated by a period corresponding to the useful symbol period; and

a second circuit for generating a the synchronization pulse in response to said first circuit detecting a substantial change in the difference between the absolute values.